

## SYSTEM AND METHOD FOR UTILIZING VECTORS IN A VIDEO GAME

### ABSTRACT OF THE DISCLOSURE

A system and method for recording and displaying vectors along a graphical path in a video game is provided. Upon initiation of a video game event, a player views vectors associated with the game paths of one or more player characters. The vectors may be net resultant force vectors generated in real time that act on each player character to determine each player character's dynamics of motion. Furthermore, the vectors may be net resultant force vectors associated with a previous game path, such as a "best time" path. The previous game path may comprise a "worst time" path and an "average time" path. Additionally, the net resultant force vectors may convey player character state travel information via one or more colors. In one embodiment of the present invention, the player may gauge game progress, future game maneuvers, and obstacle avoidance via observation of the net resultant force vectors.